

**WATERSHED KEY:**

WS A = 51,185 SF (1.18 AC.)	
WS A-1 = 65,080 SF (1.49 AC.)	
WS B = 23,864 SF (0.55 AC.)	
WS B-1 = 30,995 SF (0.71 AC.)	
WS C = 25,181 SF (0.58 AC.)	
WS-D = 37,909 SF (0.87 AC.)	
WS-E = 64,580 SF (1.48 AC.)	
WS-F = 29,052 SF (0.67 AC.)	
WS-G = 29,326 SF (0.67 AC.)	
WS-J = 29,113 SF (0.67 AC.)	
WS-EX6 = 39,142 SF (0.90 AC.)	
WS-SWA = 26,097 SF (0.60 AC.)	
WS-SWB = 44,055 SF (1.01 AC.)	
WS-FLA = 25,050 SF (0.58 AC.)	
BYPASS = 290,631 SF (6.67 AC.)	
TOTAL = 811,260 SF (18.62 AC.)	

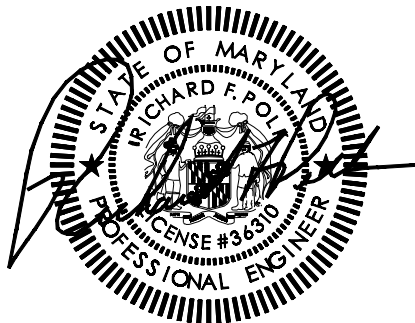
**LEGEND**

Property Line	
Existing Vegetation Line	
Existing Edge of Pavement	
Existing Centerline of Road	
Existing Building	
Existing Contour 1x	
Existing Contour 5x	
Existing Culvert Pipe	
Existing Soil Line	
Proposed Watershed Line	
Proposed Contour 1x	
Proposed Contour 5x	
Proposed Culvert Pipe	
Proposed Top of Swale	
Proposed Bottom of Swale	
Proposed Centerline of Swale	
Proposed TOC Flowpath	
Proposed LOD Line	
Proposed Vegetation Line	
Utility Pole	
Electric Box	
Mailbox	
Water Valve	
Light Post	
Flowline Grades	
Proposed Spot Shots	
Drainage Arrows	
Pipe Flow Arrows	
Road Sign	
Telephone Box	
Sewer Manhole	
Fire Hydrant	
Water Meter	

**WATERSHED DATA**

WATERSHED ID	Tc VALUE	RCN #
WS A	7	98
WS A-1	7	98
WS B	7	98
WS B-1	7	98
WS C	7	98
WS D	7	98
WS E	7	97
WS F	7	95
WS G	7	97
WS J	7	91
WS EX6	7	98
WS SWA	11.6	82
WS SWB	11.6	89
WS FL-A	7	98

- NOTES:**
1. THE STORMWATER BYPASS WATERSHEDS ARE SHOWN FOR BREAKDOWN PURPOSED ONLY AND ARE NOT BEING TREATED FOR WATER QUALITY VOLUME.
  2. TYPICAL TIME OF CONCENTRATION SHOWN, BUT COUNTY MINIMUM OF 7 MINUTES WAS USED FOR ALL CALCULATIONS.
  3. FOR STORMWATER CALCULATIONS, SEE SEPERATE STORMWATER REPORT.



**PROFESSIONAL CERTIFICATION:**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO: 36310 , EXPIRATION DATE: 11/17/2012 .

**CHARLES COUNTY GOVERNMENT**  
DEPARTMENT OF PLANNING AND GROWTH MANAGEMENT  
DEVELOPMENT SERVICES DEPARTMENT

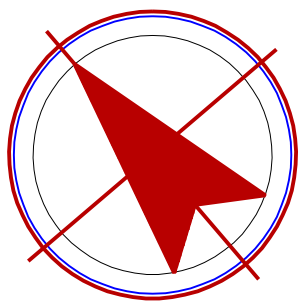
			REMARKS OR CONDITIONS
GRADING	CONSTRUCTION	AS-BUILT	
ROADS	CONSTRUCTION	AS-BUILT	
STORM DRAINAGE	CONSTRUCTION	AS-BUILT	
STORMWATER MANAGEMENT	CONSTRUCTION	AS-BUILT	
WATER	CONSTRUCTION	AS-BUILT	
SEWER	CONSTRUCTION	AS-BUILT	
OTHER	CONSTRUCTION	AS-BUILT	
SIGNED:			THIS PERMIT EXPIRES ON:
DATE:			DATE:

**NOTE:**  
This drawing, specifications, and work produced by Vista Design, Inc. (VDI) for this project are instruments of service for this project only, and remains the copyrighted property of VDI. Reuse or reproduction of any of the instruments of service of VDI by the Client or assigns without the written permission of VDI will be at the Clients risk and be a violation of the copyright laws of the United States of America and the respective state within which the work was completed.

**NOTE:**  
This Drawing does not include necessary components for construction safety. All construction must be done in compliance with the occupational safety and health act of 1970 and all rules and regulations thereto appurtenant.

**SOIL TYPES AND DESCRIPTIONS**

BcA	(C)	BELTSVILLE-AQUASCO COMPLEX, 0%-2% SLOPES
UmB	(C)	URBAN LAND-BELTSVILLE COMPLEX, 0-5% SLOPES
Uk	(D)	URBAN LAND



**PROPOSED  
STORMWATER  
DRAINAGE MAP**

REV NO.	CONSTRUCTION REVISION	DATE

**VISTA  
DESIGN, INC.**  
Landscape Architects, Land Planning Consultants, Engineers & Surveyors  
11634 Worcester Hwy, Shovell, MD 21862  
ph 410-352-3874 fax 410-352-3875 email vista@vistadesigninc.com

PROJECT DATA		09-047
DRAWN BY: <b>RS</b>	CHECK BY: <b>RP</b>	PROJ. NO.
<b>CHARLES COUNTY</b> <b>RYANS ROAD, MARYLAND</b>		<b>CE 012210.dwg</b>
FILE NO. 00-00-00	T.M. NO. 0-00-00-00	File Name:
DATE 05/20/10	SCALE 1" = 60'	3
		SHEET NO.